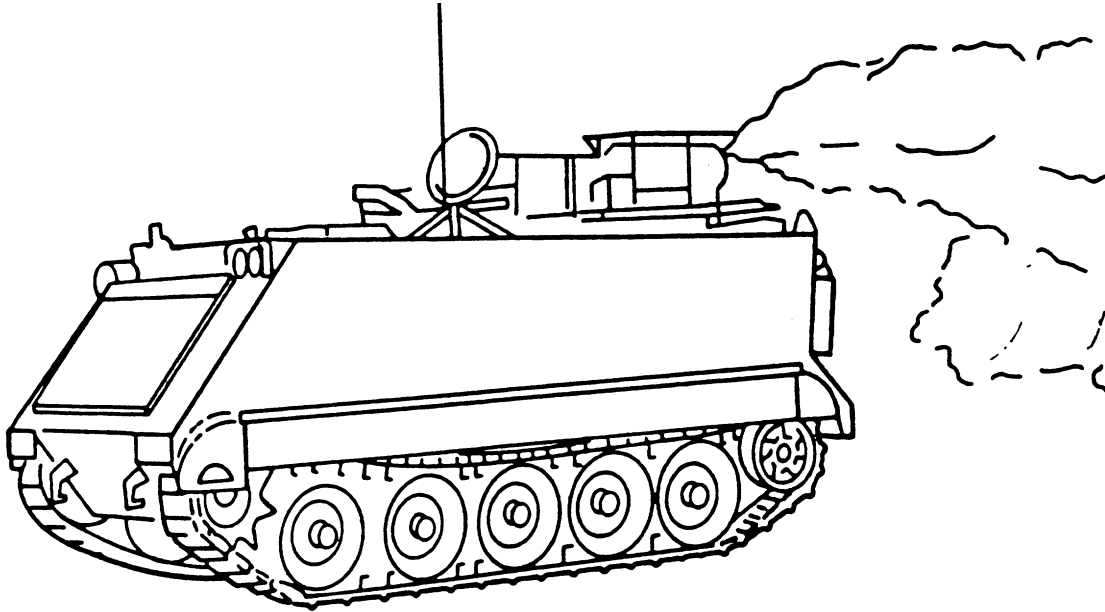


M1059 SMOKE GENERATOR



SYSTEM IDENTIFIERS

NOMENCLATURE:	Carrier, Smoke Generator, Full Tracked
SSN:	G80709
LIN:	C12815
NSN:	2520-01-203-0188
AMIM NO:	A638
EIC:	AES
FUEL TYPE:	Diesel

SYSTEM DESCRIPTION

The M1059 Smoke Generator Carrier is an M113A2 Armored Personnel Carrier (APC) modified to carry the M157 Smoke Generator Set (consisting of two M54 smoke generators that can be operated singularly or in tandem). The smoke generators are mounted on the roof under armor and are remotely controlled from inside the vehicle. The M1059 requires three types of fuels. The M113A2 APC operates on diesel; the M157 Smoke Generator Set operates on MOGAS; and the M157 Smoke Generator Set produces the smoke screen from fog oil. The fog oil is located inside the vehicle in a 120 gallon tank. The vehicle carries two five gallon gas cans mounted on the rear of the vehicle for operating the M157 Smoke Generator Set. The system is capable of generating smoke for one hour without refueling.

The list below identifies selected components associated with the weapon/materiel system.

M1059 SMOKE GENERATOR

LIN	NSN	NOMENCLATURE
A46470	5820-00-892-3342	AMPLIFIER, AUDIO FREQ
B38070	5820-00-893-1323	BASE SHOCK MOUNT ELECTRICAL, MT-102
C89070	1080-00-108-1173	CAMOUFLAGE SCREEN SUPPORT
C89145	1080-00-103-1246	CAMOUFLAGE SCREEN SYSTEM
C89213	1080-00-623-7295	CAMOUFLAGE SCREEN SUPPORT
J46589	6115-00-857-1397	GENERATOR SET, GAS ENGINE
K93373	5830-00-856-3273	INTERCOMMUNICATION SET
L67021	1055-01-059-0560	LAUNCHER, GRENADE, SMOKE
L91975	1005-00-322-9715	MACHINE GUN, .50 CALIBER
M75577	1005-00-322-9716	MOUNT, TRIPOD, MACHINE
N04456	5855-00-150-1820	NIGHT VISION GOGGLES
N04596	5855-00-629-5327	NIGHT VISION SIGHT, CREW
Q34308	5820-00-223-7473	RADIO SET, AN/GRC-160
Q38299	5820-00-930-3724	RADIO SET, AN/PRC-77
Q56783	5820-00-223-7475	RADIO SET, AN/VRC-53
R31609	5820-01-234-8093	RECEIVER-TRANSMITTER RADIO, RT-1523
R44795	5820-01-151-9918	RADIO SET AN/VRC-89

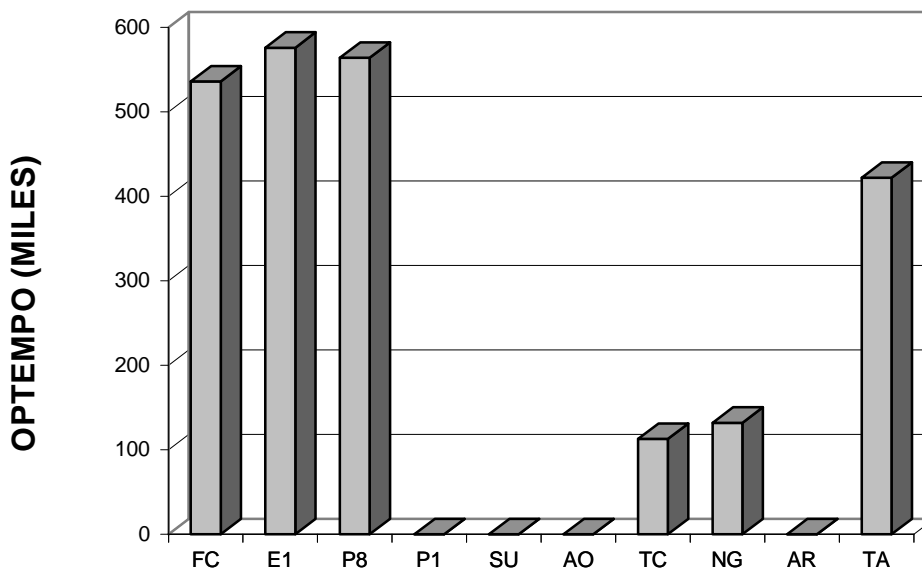
This summary provides an overview of FY 94 Total Army operating and support costs and other information for the weapon system. Average cost per system or per mile are displayed so the data can be used in performing analytical and cost studies. Average costs are calculated using the end item's density and activity. NET REPARABLES represent the cost with the Major Subordinate Command (MSC) specific credit rates applied (detailed in Section 1 - Overview).

**M1059 SMOKE GENERATOR
FY 94 TOTAL ARMY COST SUMMARY
(FY 94 Constant Dollars)**

ACTIVITY/DENSITY		DEPOT END ITEM MAINTENANCE (5.061)	
MILES	77,712	TOTAL	\$0
NUMBER OF SYSTEMS	184	QUANTITY COMPLETED	0
OPTEMPO (MILES/SYSTEM)	422	AVG COST/END ITEM	\$0.00
CLASS III-POL (5.05)		DEPOT SECONDARY ITEM MAINTENANCE	
POL	\$32,323	TOTAL	\$91,934
AVG COST/SYSTEM	\$175.67	QUANTITY COMPLETED	960
AVG COST/MILE	\$0.42	AVG COST/SECONDARY ITEM	\$95.76
CLASS V-AMMUNITION (2.11)		INTERMEDIATE MAINTENANCE	
AMMUNITION	\$95,122		
AVG COST/SYSTEM	\$516.97	<u>DS/GS</u>	<u>CIVILIAN</u>
AVG COST/MILE	\$1.22	MIL/CIV LABOR COST	\$31,459
		AVG COST/SYSTEM	\$170.97
		AVG COST/MILE	\$0.40
			\$0.50
		MAINTENANCE MANHOURS	1,894
		MMHs/SYSTEM	10.29
		MMHs/MILE	0.02
			1,648
			8.96
			0.02
CLASS IX MATERIEL-PARTS (5.04/5.03)			
	FY 94	AVG COST	AVG COST
	<u>DOLLARS</u>	<u>PER SYSTEM</u>	<u>PER MILE</u>
CONSUMABLES	\$711,646	\$3,867.64	\$9.16
NET REPARABLES	\$217,237	\$1,180.64	\$2.80
TOTAL	\$928,883	\$5,048.28	\$11.95

The following graph and table display FY 94 OPTEMPO data by MACOM. ACTIVITY represents the miles recorded in The Army Maintenance Management System-Equipment Data Base (TAMMS-EDB). NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System-Expanded (CBS-X). OPTEMPO is calculated by dividing ACTIVITY (Miles) by NUMBER OF SYSTEMS. The Total Army (TA) OPTEMPO is the summation of all MACOM activities (Miles) divided by the summation of all MACOM number of systems.

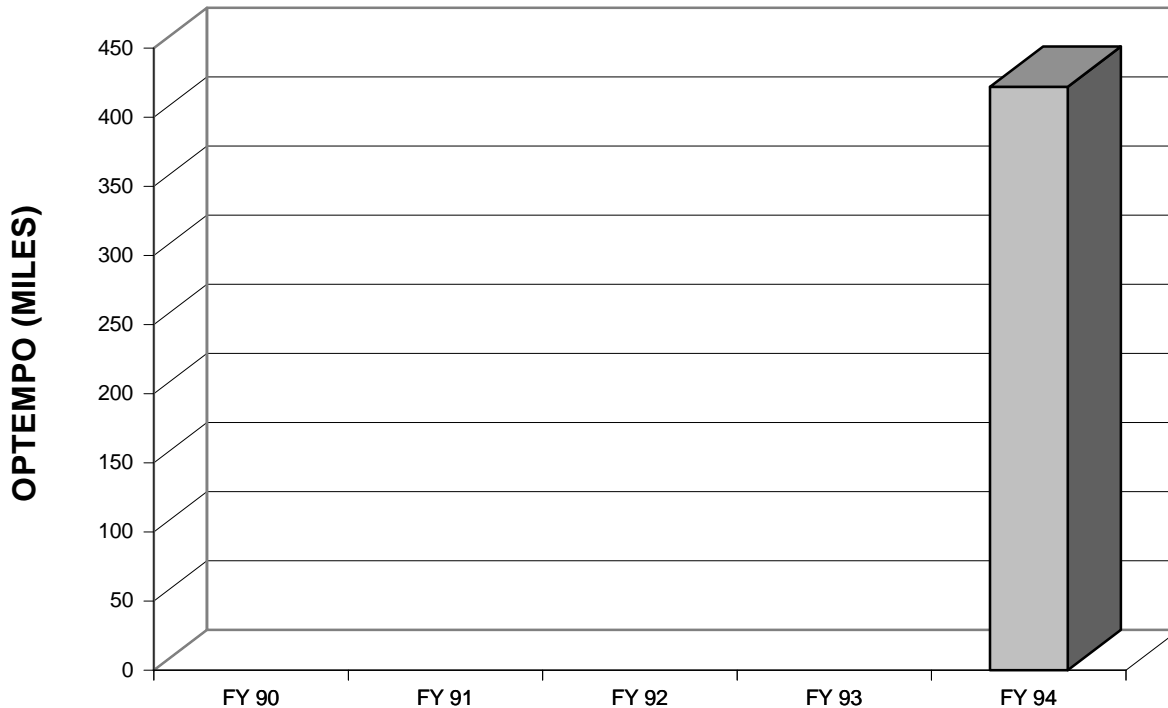
M1059 SMOKE GENERATOR



M1059 SMOKE GENERATOR FY 94 MACOM OPTEMPO				
MACOM		ACTIVITY (Miles)	NUMBER OF SYSTEMS	OPTEMPO
CODE	NAME			
FC	FORSCOM	56,246	105	536
E1	USAREUR	10,940	19	576
P8	EUSA	3,948	7	564
P1	USARPAC	0	0	0
SU	USARSO	0	0	0
AO	USASOC	0	0	0
TC	TRADOC	2,486	22	113
NG	ARNG	4,092	31	132
AR	USAR	0	0	0
TA	TOTAL ARMY	77,712	184	422

The following graph and table display FY 90-94 OPTEMPO by Total Army. The Total Army ACTIVITY and NUMBER OF SYSTEMS are a summation of all the MACOMs displayed on the previous page. ACTIVITY represents the miles recorded in TAMMS-EDB. NUMBER OF SYSTEMS is the density recorded in the Continuing Balance System - Expanded (CBS-X). OPTEMPO is calculated by dividing ACTIVITY (Miles) by NUMBER OF SYSTEMS. Blank rows indicate system was not tracked in the OSMIS database during that fiscal year.

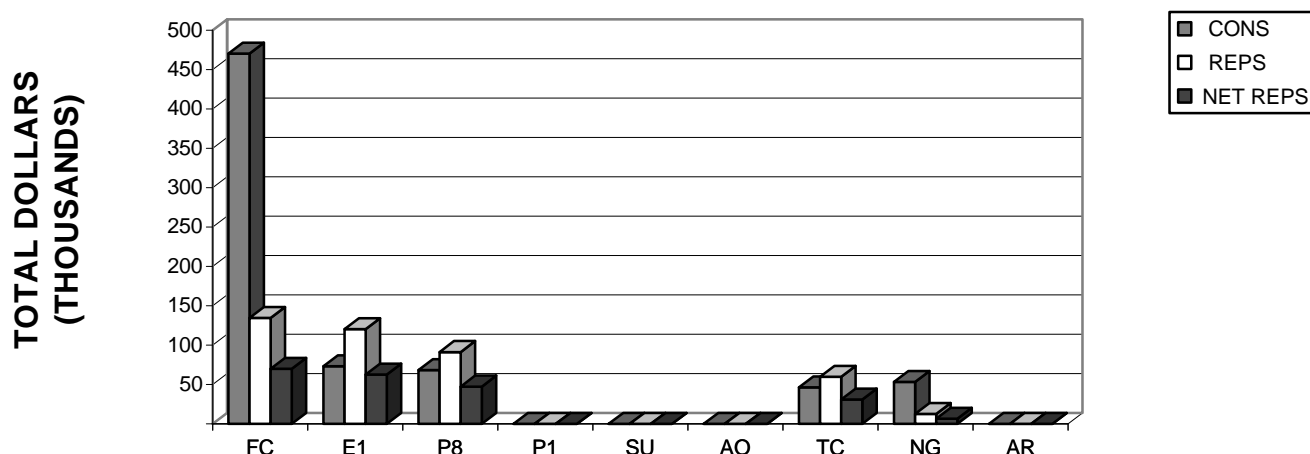
M1059 SMOKE GENERATOR



M1059 SMOKE GENERATOR FIVE YEAR TOTAL ARMY OPTEMPO			
FISCAL YEAR	ACTIVITY (Miles)	NUMBER OF SYSTEMS	OPTEMPO
FY 90			
FY 91			
FY 92			
FY 93			
FY 94	77,712	184	422

The following graph and table display FY 94 Class IX costs for consumables (CONS), reparable, (REPS), and net reparable (NET REPS) by MACOM. CONS and REPS are the total costs of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. TOTAL ARMY (TA) costs are the summation of costs across all MACOMs in the table. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems for each MACOM. AVG PER MILE costs are calculated by dividing NET TOTAL COSTS by the activity (Miles) for each MACOM.

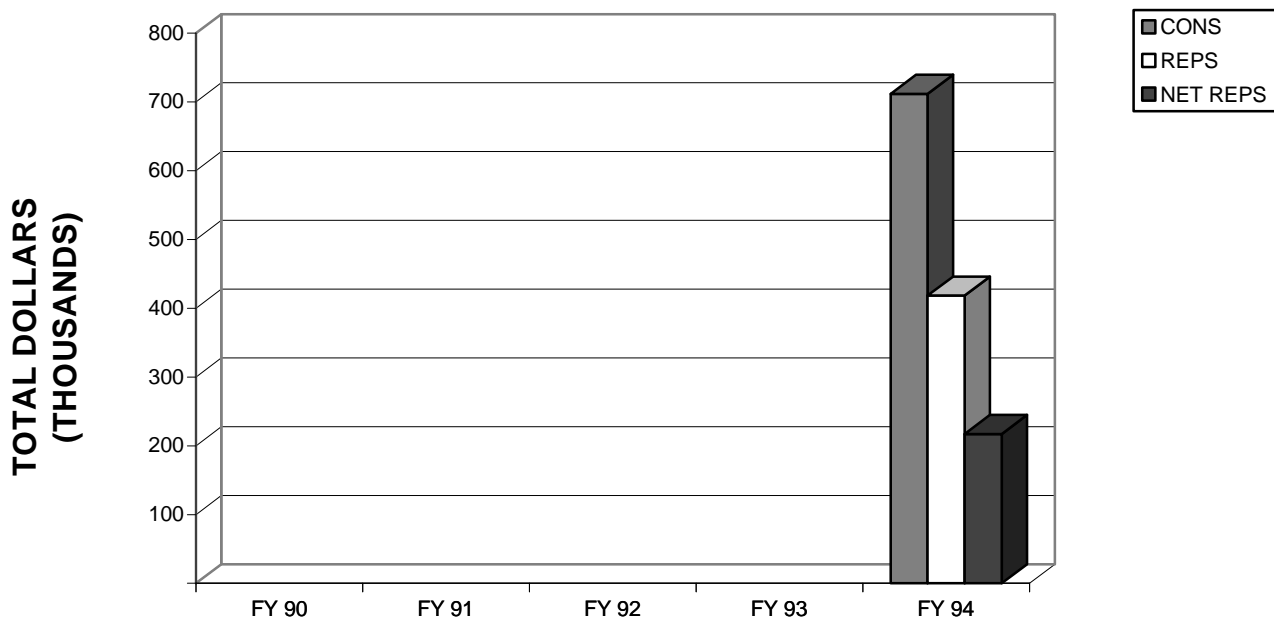
M1059 SMOKE GENERATOR



M1059 SMOKE GENERATOR FY 94 MACOM CLASS IX COSTS							
MACOM		CONS	REPS	NET REPS	NET TOTAL COSTS	AVG PER SYSTEM	AVG PER MILE
CODE	NAME						
FC	FORSCOM	470,496	134,655	69,925	540,421	5,147	10
E1	USAREUR	73,108	120,406	62,525	135,633	7,139	12
P8	EUSA	68,407	91,261	47,374	115,781	16,540	29
P1	USARPAC	0	0	0	0	0	0
SU	USARSO	0	0	0	0	0	0
AO	USASOC	0	0	0	0	0	0
TC	TRADOC	46,435	59,639	30,960	77,395	3,518	31
NG	ARNG	53,200	12,433	6,453	59,653	1,924	15
AR	USAR	0	0	0	0	0	0
TA	TOTAL ARMY	711,646	418,394	217,237	928,883	5,048	12

The following graph and table display FY 90-94 Class IX costs for consumables (CONS), reparable (REPS) and net reparable (NET REPS) by Total Army. The Total Army costs are a summation of all the MACOMs displayed on the previous page. CONS and REPS are the total cost of requisitions recorded in the Logistic Intelligence File (LIF). NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. NET TOTAL COSTS are the sums of the costs of CONS and NET REPS. AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the number of systems in the Total Army for the fiscal year. The AVG PER MILE costs are calculated by dividing NET TOTAL COSTS by the Total Army Activity for the fiscal year. Blank rows indicate system was not tracked in the OSMIS database

M1059 SMOKE GENERATOR



M1059 SMOKE GENERATOR FIVE YEAR TOTAL ARMY CLASS IX COSTS						
FISCAL YEAR	CONS	REPS	NET REPS	NET TOTAL COSTS	AVG PER SYSTEM	AVG PER MILE
FY 90						
FY 91						
FY 92						
FY 93						
FY 94	711,646	418,394	217,237	928,883	5,048	12

The Total Army Class IX costs from the previous pages are broken out by Work Breakdown Structure (WBS) in the following table. The FY 94 WBS Class IX costs for consumables (CONS) and reparable (REPS) are the total cost of requisitions recorded in the Logistic Intelligence File (LIF). The NET REPS are the cost to the customer in the field and are calculated by applying an MSC-specific credit rate at the NSN level. The TOTAL costs are a summation of all the WBS elements displayed in the table. NET TOTAL COSTS are the sum of the costs in CONS and NET REPS. AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS column by the total number of systems in the Army. AVG PER MILE costs are calculated by dividing the NET TOTAL COSTS by the total activity (Miles) for the entire Army.

M1059 SMOKE GENERATOR FY 94 TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS							
WBS	NAME	CONS	REPS	NET REPS	NET TOTAL COSTS	AVG PER SYSTEM	AVG PER MILE
01	HULL/FRAME	140,117	24,689	12,853	152,970	831	2
02	SUSPENSION/STEER	16,841	129,443	67,180	84,021	457	1
03	POWER PACKAGE	389,378	259,907	134,892	524,270	2,849	7
04	AUX AUTOMOTIVE	13,295	0	0	13,295	72	0
05	TURRET ASSEMBLY	0	0	0	0	0	0
06	FIRE CONTROL	39,276	2,553	1,363	40,639	221	1
07	ARMAMENT	9,785	0	0	9,785	53	0
08	BODY/CAB	0	0	0	0	0	0
09	AUTO LOADING	0	0	0	0	0	0
10	AUTO/REMOTE PILOT	0	0	0	0	0	0
11	NBC EQUIPMENT	16,113	0	0	16,113	88	0
12	SPECIAL EQUIPMENT	0	0	0	0	0	0
13	NAVIGATION	0	0	0	0	0	0
14	COMMUNICATIONS	56,297	159	88	56,385	306	1
15	VEH APP SOFTWARE	0	0	0	0	0	0
16	VEH SYS SOFTWARE	0	0	0	0	0	0
17	INT, ASSY, TEST, C/O	0	0	0	0	0	0
18	OTHER	30,544	1,643	861	31,405	171	0
	TOTAL	711,646	418,394	217,237	928,883	5,048	12

The following table displays FY 90-94 Class IX costs by Work Breakdown Structure (WBS) for the Total Army. NET TOTAL COSTS are summation for all the WBS elements displayed on the previous page and are a sum of the costs of CONS and NET REPS. AVG PER SYSTEM costs are calculated by dividing the costs in NET TOTAL COSTS by the total number of systems in the Army for the fiscal year. AVG PER MILE costs are calculated by dividing NET TOTAL COSTS by the total activity (miles) for the Total Army in the fiscal year. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

M1059 SMOKE GENERATOR FIVE YEAR TOTAL ARMY WORK BREAKDOWN STRUCTURE COSTS						
WBS	NAME	FY 90 NET TOTAL COSTS	FY 91 NET TOTAL COSTS	FY 92 NET TOTAL COSTS	FY 93 NET TOTAL COSTS	FY 94 NET TOTAL COSTS
01	HULL/FRAME					152,970
02	SUSPENSION/STEER					84,021
03	POWER PACKAGE					524,270
04	AUX AUTOMOTIVE					13,295
05	TURRET ASSEMBLY					0
06	FIRE CONTROL					40,639
07	ARMAMENT					9,785
08	BODY/CAB					0
09	AUTO LOADING					0
10	AUTO/REMOTE PILOT					0
11	NBC EQUIPMENT					16,113
12	SPECIAL EQUIPMENT					0
13	NAVIGATION					0
14	COMMUNICATIONS					56,385
15	VEH APP SOFTWARE					0
16	VEH SYS SOFTWARE					0
17	INT, ASSY, TEST, C/O					0
18	OTHER					31,405
	TOTAL					928,883
	AVG PER SYSTEM					5,048
	AVG PER MILE					12

M1059 SMOKE GENERATOR
TOP 40 COST DRIVERS
CLASS IX CONSUMABLES (NON-DLRs)

	NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	FY 94 AMDF UNIT PRICE	FY 94 QTY
1.	2815012957458	ENGINE,DIESEL	03A	H		K21MC	9,414.00	23.85
2.	5340012640198	CAP,FILLER OPENING	01A	O		K21MX	720.00	66.00
3.	5895012187037	CONTROL-INDICATOR	14	O		M21ZA	4,837.00	7.00
4.	5855010343845	IMAGE INTENSIFIER,N	06E	Z		G22SZ	1,274.00	22.95
5.	4730012594429	COUPLING ASSEMBLY,Q	01A	Z		J2200	238.00	108.80
6.	2520011202169	TRANSMISSION,HYDRAU	03H	Z		K21MC	737.00	18.59
7.	2815001245390	ENGINE WITH CONTAIN	03A	H		K21MC	9,414.00	1.28
8.	4730012583841	COUPLING ASSEMBLY,Q	11	Z		M22ZA	111.00	101.89
9.	2520010615766	FINAL DRIVE ASSEMBL	03N	F		K21MC	1,217.00	8.06
10.	2520007146135	DIFFERENTIAL,STEERI	03M	H		K21MC	5,130.00	1.64
11.	2930011079902	FAN ASSEMBLY,VENTIL	03G	F		K21MC	1,397.00	5.97
12.	2920013003737	REGULATOR,ENGINE GE	03A	Z		K22MW	157.00	49.66
13.	6130010179496	POWER SUPPLY	18	Z		Q2200	354.99	16.70
14.	2510010288573	SHOCK ABSORBER,DIRE	02G	Z		K22MC	44.88	126.11
15.	2920010540479	REGULATOR,ENGINE GE	03A	Z		K22JT	281.00	19.04
16.	2530011303366	PAD,TRACK,SHOE	02B	Z		K22MC	3.82	1,370.40
17.	2920009814936	STARTER-GENERATOR,E	03A	F		B21VS	1,020.00	4.94
18.	4320012188582	PUMP,RECIPROCATING	11	O		M21ZA	4,803.00	1.00
19.	2815007891006	CYLINDER HEAD	03A	H		K21MC	537.00	8.32
20.	2920013016846	GENERATOR,ENGINE AC	03A	F		K21MW	1,106.00	3.87
21.	5855001382386	IMAGE INTENSIFIER,N	06E	Z		G22SX	1,724.00	2.47
22.	2930010614294	RADIATOR,ENGINE COO	03G	F		K21MC	732.00	5.16
23.	5985009859024	ANTENNA	14	O		G21RT	254.00	14.73
24.	3040012488921	CONNECTING LINK,RIG	03K	Z		J2200	44.81	83.00
25.	2815000806540	PARTS KIT,PISTON AS	03A	Z		J2200	81.87	40.96
26.	4320006799159	PUMP,ROTARY	18	Z		K22MC	73.81	43.43
27.	6140012101964	BATTERY,STORAGE	18	F		K21PU	57.22	54.09
28.	2910000733011	INJECTOR ASSEMBLY,F	03A	F		J2100	86.33	32.38
29.	2815012300203	CYLINDER SLEEVE AND	03A	Z		J2200	169.82	15.43
30.	4730012490421	COUPLING HALF,QUICK	01A	Z		J2200	216.15	11.00
31.	5330006797951	SEAL,PLAIN ENCASED	01A	Z		T22MC	13.08	175.21
32.	2540012350459	SEAT,VEHICULAR	01H	O		K21MX	755.00	3.00
33.	5965000433463	HANDSET H-250/U	14	Z		G227B	35.53	62.68
34.	6650007043549	PERISCOPE(M17	01A	Z		M22KD	67.19	32.78
35.	4720012620990	HOSE ASSEMBLY,NONME	01A	Z		J2200	199.80	11.00
36.	2815000226732	ENGINE AND CONTAI	03A	H		K21MC	9,414.00	0.23
37.	2910012347373	NOZZLE,FUEL INJECTI	03A	Z		J2200	135.77	15.36
38.	4330012149303	PARTS KIT,FLUID PRE	18	Z		J2200	155.35	13.26
39.	4720012620991	HOSE ASSEMBLY,NONME	01A	Z		J2200	291.48	7.00
40.	5330010602531	SEAL,PLAIN ENCASED	01A	Z		K22MC	13.04	152.61

NUMBER OF SYSTEMS	184
MILES	77,712

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

M1059 SMOKE GENERATOR CONSUMABLES (NON-DLRs)

EXTENDED COST (QTY * UNIT PRICE)	AVERAGE COST		AVERAGE QUANTITY		FY 90-94 FIVE YEAR AVERAGE	
	PER SYSTEM	PER MILE	PER 100 SYSTEMS	PER 100 MILES	QTY	EXTENDED COST
224,524	1,220.24	2.89	12.9620	0.0307		
47,520	258.26	0.61	35.8696	0.0849		
33,859	184.02	0.44	3.8043	0.0090		
29,238	158.90	0.38	12.4728	0.0295		
25,895	140.73	0.33	59.1304	0.1400		
13,701	74.46	0.18	10.1033	0.0239		
12,050	65.49	0.16	0.6957	0.0016		
11,310	61.47	0.15	55.3750	0.1311		
9,810	53.32	0.13	4.3804	0.0104		
8,414	45.73	0.11	0.8913	0.0021		
8,340	45.33	0.11	3.2446	0.0077		
7,796	42.37	0.10	26.9891	0.0639		
5,928	32.22	0.08	9.0761	0.0215		
5,660	30.76	0.07	68.5380	0.1623		
5,351	29.08	0.07	10.3478	0.0245		
5,235	28.45	0.07	744.7826	1.7634		
5,038	27.38	0.06	2.6848	0.0064		
4,803	26.10	0.06	0.5435	0.0013		
4,468	24.28	0.06	4.5217	0.0107		
4,280	23.26	0.06	2.1033	0.0050		
4,259	23.15	0.05	1.3424	0.0032		
3,777	20.53	0.05	2.8043	0.0066		
3,740	20.33	0.05	8.0054	0.0190		
3,719	20.21	0.05	45.1087	0.1068		
3,353	18.22	0.04	22.2609	0.0527		
3,206	17.42	0.04	23.6033	0.0559		
3,096	16.83	0.04	29.3967	0.0696		
2,795	15.19	0.04	17.5978	0.0417		
2,621	14.24	0.03	8.3859	0.0199		
2,378	12.92	0.03	5.9783	0.0142		
2,292	12.46	0.03	95.2228	0.2255		
2,265	12.31	0.03	1.6304	0.0039		
2,227	12.10	0.03	34.0652	0.0807		
2,201	11.96	0.03	17.8152	0.0422		
2,198	11.95	0.03	5.9783	0.0142		
2,165	11.77	0.03	0.1250	0.0003		
2,086	11.34	0.03	8.3478	0.0198		
2,060	11.20	0.03	7.2065	0.0171		
2,040	11.09	0.03	3.8043	0.0090		
1,991	10.82	0.03	82.9402	0.1964		

527,689	74.2%	TOP 40
183,957	25.8%	OTHERS
=====		
711,646		TOTAL

M1059 SMOKE GENERATOR
COST DRIVERS
CLASS IX REPARABLES (DLRs)

	NSN	NOMENCLATURE	WBS	MRC	ARI	MATCAT	FY 94 AMDF UNIT PRICE		FY 94 QTY
							W/O CREDIT	W/CREDIT	
1.	2520012014784	TRANSMISSION WITH	03H	H	R	K21M5	57,785.00	29,990.42	3.90
2.	2530000782908	TRACK SHOE ASSEMBLY	02B	D	C	K21MC	63.20	32.80	1,943.64
3.	2815012487644	ENGINE, W/ CONTAINER	03A	H	R	K21M5	17,351.00	9,005.17	1.75
4.	2540011695159	HEATER, VEHICULAR, C	01H	F	C	K21MC	1,474.00	765.01	8.09
5.	2540011623834	HEATER, VEHICULAR, C	01H	F	C	K21MC	1,424.00	739.06	7.91
6.	2530011393748	WHEEL, SOLID RUBBER	02A	D	R	K21MC	65.74	34.12	100.46
7.	2920007821955	GENERATOR ALTERNATOR	03A	F	C	K21MC	857.00	444.78	3.76
8.	4310012186980	COMPRESSOR, RECIPI	18	D		M21ZA	1,638.00	858.31	1.00
9.	6650012995454	CELL ASSEMBLY, OPTI	01A	D	E	G24SZ	208.00	113.98	6.22
10.	1240010507256	PERISCOPE, TANK	06E	D		M21MV	36,873.00	19,321.45	0.03
11.	5855010455495	CELL ASSEMBLY, OPTI	06E	D	C	G21SY	862.00	472.38	0.48
12.	1240007652971	PERISCOPE, TANK	06E	D	C	M21MB	2,040.00	1,068.96	0.21
13.	5855010202211	NIGHT VISION SIGHT	06E	D	D	G21SE	4,333.00	2,374.48	0.09
14.	2815012482560	HOUSING, FLYWHEEL	03A	D		K23M5	1,155.00	599.45	0.32
15.	5855010455490	CELL ASSEMBLY, OPTI	06E	D	R	G21SE	825.00	452.10	0.26
16.	4810011980504	VALVE, SOLENOID	01A	D		K21M5	884.00	458.80	0.20
17.	5820013236265	CHASSIS, ELECTRICAL	14	H	C	G24R9	1,084.00	594.03	0.14
18.	3020005728722	GEAR SET, SPUR, MATC	03H	D		K21MC	159.00	82.52	1.01
19.	2520012573881	VALVE ASSEMBLY, COI	03H	D		K21M5	673.00	349.29	0.17
20.	2520012515490	PUMP ASSEMBLY, SCA	03H	D		K21M5	1,293.00	671.07	0.08
21.	2520012359590	COVER ASSEMBLY, PU	03H	D		K21M5	193.00	100.17	0.40
22.	2520011980502	CARRIER ASSEMBLY	03H	D		K21M5	777.00	403.26	0.06
23.	3040011980506	HOUSING, MECHANICAL	03K	D		K21M5	511.00	265.21	0.08
24.	2805012184524	HOUSING, FLYWHEEL	03A	D		K23M4	1,079.00	560.00	0.03
25.	4810012144015	VALVE, LINEAR, DIRECT	01A	D		K21M5	321.00	166.60	0.07
26.	2520011980495	PUMP, OUTPUT OIL	03H	D		K21M5	654.00	339.43	0.02
27.	5340012468279	HINGE, RAMP, CENTER	01A	D		K23M5	192.00	99.65	0.04
28.	6650011652163	RETICLE PROJECTOR	18	D		G21SY	529.00	289.89	0.01
29.	5998011792823	CIRCUIT CARD ASSEMB	14	D	D	G21R9	242.00	132.62	0.02
30.	5998012490292	CIRCUIT CARD ASSEMB	14	D		G21R9	278.00	152.34	0.01

NUMBER OF SYSTEMS	184
MILES	77,712

NOTE: ROWS MAY NOT CALCULATE DUE TO ROUNDING

**M1059 SMOKE GENERATOR
REPARABLES (DLRs)**

EXTENDED COST W/CREDIT (QTY * UNIT PRICE)	AVERAGE COST (W/CREDIT)		AVERAGE QUANTITY		FY 90-94 FIVE YEAR AVERAGE	
	PER SYSTEM	PER MILE	PER 100 SYSTEMS	PER 100 MILES	QTY	EXTENDED COST (W/CREDIT)
116,963	635.67	1.51	2.1196	0.0050		
63,752	346.48	0.82	1,056.3261	2.5011		
15,759	85.65	0.20	0.9511	0.0023		
6,189	33.64	0.08	4.3967	0.0104		
5,847	31.78	0.08	4.2989	0.0102		
3,428	18.63	0.04	54.5978	0.1293		
1,673	9.09	0.02	2.0435	0.0048		
858	4.66	0.01	0.5435	0.0013		
709	3.85	0.01	3.3804	0.0080		
580	3.15	0.01	0.0163	0.0000		
227	1.23	0.00	0.2609	0.0006		
224	1.22	0.00	0.1141	0.0003		
214	1.16	0.00	0.0489	0.0001		
192	1.04	0.00	0.1739	0.0004		
118	0.64	0.00	0.1413	0.0003		
92	0.50	0.00	0.1087	0.0003		
84	0.46	0.00	0.0761	0.0002		
83	0.45	0.00	0.5489	0.0013		
59	0.32	0.00	0.0924	0.0002		
54	0.29	0.00	0.0435	0.0001		
40	0.22	0.00	0.2174	0.0005		
24	0.13	0.00	0.0326	0.0001		
21	0.11	0.00	0.0435	0.0001		
17	0.09	0.00	0.0163	0.0000		
12	0.07	0.00	0.0380	0.0001		
7	0.04	0.00	0.0109	0.0000		
4	0.02	0.00	0.0217	0.0001		
3	0.02	0.00	0.0054	0.0000		
2	0.01	0.00	0.0109	0.0000		
2	0.01	0.00	0.0054	0.0000		

217,237	100.0%	COST DRIVERS
0	0.0%	OTHERS
=====		
217,237		TOTAL

The following table summarizes FY 94 Depot Maintenance Costs from the Master File Maintenance (MFM). Depot maintenance costs are displayed by cost elements for end item maintenance and secondary item maintenance. The OTHER cost columns represent work categories such as progressive maintenance, renovation, and fabrication/manufacture. For reporting purposes, TRANSPORTATION costs recorded in the World Aircraft Logistics Conference (WALC)/Special Aircraft Assignment Mission (SAAM) records are shown in the OTHER maintenance category.

M1059 SMOKE GENERATOR FY 94 DEPOT MAINTENANCE COSTS							
COST ELEMENTS	END ITEM MAINTENANCE				SECONDARY ITEM MAINTENANCE		
	REPAIR	OVERHAUL	OTHER	MODIFICATION	REPAIR	OVERHAUL	OTHER
CIVILIAN LABOR	0	0	0	0	1,646	19,797	0
MILITARY LABOR	0	0	0	0	0	0	0
MATERIEL	0	0	0	0	2,305	33,032	0
TRANSPORTATION	0	0	0	0			
OVERHEAD	0	0	0	0	2,903	30,201	0
CONTRACT	0	0	0	0	0	0	0
OTHER	0	0	0	0	63	1,987	0
TOTAL	0	0	0	0	6,917	85,017	0
QTY COMPLETED	0	0	0	0	11	949	0
AVG COST	0	0	0	0	629	90	0

The table below summarizes FY 94 Intermediate Maintenance Costs from the Work Order Logistics File (WOLF) data. The labor hours and labor costs for Direct Support/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS LABOR COSTS are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate (\$16.61). CIVILIAN LABOR COSTS are a summation from the source data.

M1059 SMOKE GENERATOR FY 94 INTERMEDIATE MAINTENANCE COSTS					
MACOM	DS/GS LABOR HOURS	DS/GS LABOR COSTS	CIVILIAN LABOR HOURS*	CIVILIAN LABOR COSTS*	CIVILIAN LABOR COST/HOUR
FORSCOM	711	11,810	1,648	39,144	23.75
USAREUR	633	10,514			
EUSA	16	266			
USARPAC	0	0			
USARSO	0	0			
USASOC	0	0			
TRADOC	0	0	0	0	0.00
ARNG	534	8,870			
USAR	0	0			
TOTAL ARMY	1,894	31,459	1,648	39,144	23.75

*TRADOC LABOR HOURS and LABOR COSTS include contractor hours and costs.

The following table summarizes FY 90-94 Depot Maintenance Costs. The depot maintenance data are recorded in MFM. FY 94 costs are a summation of the cost elements displayed on the previous page. END ITEM OVERHEAD costs were not separately identified prior to FY 92. TRANSPORTATION costs are recorded in the WALC/SAAM records. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

M1059 SMOKE GENERATOR FIVE YEAR DEPOT MAINTENANCE COSTS										
COST ELEMENTS	END ITEM MAINTENANCE					SECONDARY ITEM MAINTENANCE				
	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
CIVILIAN LABOR					0					21,443
MILITARY LABOR					0					0
MATERIEL					0					35,337
TRANSPORTATION					0					
OVERHEAD					0					33,104
CONTRACT					0					0
OTHER					0					2,050
TOTAL					0					91,934
QTY COMPLETED					0					960
AVG COST					0					96

The table below summarizes FY 90-94 Intermediate Maintenance Costs from WOLF. The fiscal year total costs for Direct/General Support Intermediate Maintenance (DS/GS) and Civilian Maintenance are displayed by MACOM and Total Army. MACOM DS/GS labor costs are calculated by multiplying MACOM labor hours by the Army Manpower Cost System (AMCOS) E-5 composite standard rate. DS/GS COST PER HR is the E-5 composite standard rate in FY 94 constant dollars. CIVILIAN LABOR COSTS are a summation from the source data. Blank columns indicate system was not tracked in the OSMIS database during that fiscal year.

M1059 SMOKE GENERATOR FIVE YEAR INTERMEDIATE MAINTENANCE COSTS										
MACOM	DIRECT/GENERAL SUPPORT INTERMEDIATE MAINTENANCE (DS/GS)					CIVILIAN MAINTENANCE (CIV)				
	FY 90	FY 91	FY 92	FY 93	FY 94	FY 90	FY 91	FY 92	FY 93	FY 94
FORSCOM					11,810					39,144
USAREUR					10,514					
EUSA					266					
USARPAC					0					
USARSO					0					
USASOC					0					
TRADOC					0					0
ARNG					8,870					
USAR					0					
TOTAL ARMY					31,459					39,144
LABOR HRS					1,894					1,648
COST PER HR					16.61					23.75

The following list shows the FY 94 Secondary Item - Rebuilds/Overhauls Cost Drivers recorded in the MFM. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 94 TOTAL COST TO REBUILD/OVERHAUL by FY 94 QTY COMPLETED.

M1059 SMOKE GENERATOR FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS					
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 94 TOTAL COST TO REBUILD/ OVERHAUL	FY 94 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL
2815-01-248-7644	ENGINE,W CONTAIN	17,351	46,075	2	23,038
2530-00-078-2908	TRACK SHOE ASSEM	63	38,861	946	41
1005-00-614-7463	BOLT ASSEMBLY(A	412	81	1	81

The following list shows the FY 94 Secondary Item Maintenance - Repairs Cost Drivers recorded in MFM. AVG COST TO REPAIR is calculated by dividing the costs in FY 94 TOTAL COST TO REPAIR by FY 94 QTY COMPLETED.

M1059 SMOKE GENERATOR FY 94 DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS					
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 94 TOTAL COST TO REPAIR	FY 94 QTY COMPLETED	AVG COST TO REPAIR
2540-01-162-3834	HEATER,VEHICULAR	1,424	3,458	5	692
2540-01-169-5159	HEATER,VEHICULAR	1,474	2,099	2	1,050
2920-01-054-0479	REGULATOR,ENGINE	281	736	3	245
2920-00-782-1955	GENERATOR ALTERN	857	624	1	624

The following list shows the FY 90-94 Secondary Item - Rebuild/Overhauls Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' report, see Appendix A, Section 15 for further explanation. AVG COST TO REBUILD/OVERHAUL is calculated by dividing the costs in FY 90-94 TOTAL COST TO REBUILD/OVERHAUL by FY 90-94 QTY COMPLETED.

M1059 SMOKE GENERATOR FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REBUILDS/OVERHAULS COST DRIVERS					
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 90-94 TOTAL COST TO REBUILD/ OVERHAUL	FY 90-94 QTY COMPLETED	AVG COST TO REBUILD/ OVERHAUL
2815-01-248-7644	ENGINE,W CONTAIN	17,351	46,075	2	23,038
2530-00-078-2908	TRACK SHOE ASSEM	63	38,861	946	41
1005-00-614-7463	BOLT ASSEMBLY(A	412	81	1	81

The following list shows the FY 90-94 Secondary Item - Repairs Cost Drivers recorded in MFM. These five year Cost Drivers were revised from previous years' report, see Appendix A, Section 15 for further explanation. AVG COST TO REPAIR is calculated by dividing the costs in FY 90-94 TOTAL COST TO REPAIR by FY 90-94 QTY COMPLETED.

M1059 SMOKE GENERATOR FIVE YEAR DEPOT SECONDARY ITEM MAINTENANCE - REPAIRS COST DRIVERS					
NSN	NOMENCLATURE	FY 94 AMDF PRICE	FY 90-94 TOTAL COST TO REPAIR	FY 90-94 QTY COMPLETED	AVG COST TO REPAIR
2540-01-162-3834	HEATER,VEHICULAR	1,424	3,458	5	692
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2920-01-054-0479	REGULATOR,ENGINE	281	736	3	245
2920-00-782-1955	GENERATOR ALTERN	857	624	1	624

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